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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/750,858	12/29/2000	Joseph M. Geigel	80677DMW	8939

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Thomas H. Close  
Patent Legal Staff  
Eastman Kodak Company  
343 State Street  
Rochester, NY 14650-2201

EXAMINER

NGUYEN, NHON D

ART UNIT	PAPER NUMBER
2174	6

DATE MAILED: 09/29/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/750,858	GEIGEL ET AL.
	Examiner	Art Unit
	Nhon (Gary) D Nguyen	2174

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1) Responsive to communication(s) filed on 29 December 2000.  
 2a) This action is FINAL.                            2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4) Claim(s) 1-27 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-11, 13, 15, 17-21, 23, 25 and 27 is/are rejected.  
 7) Claim(s) 12, 14, 16, 22, 24 and 26 is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.  
 If approved, corrected drawings are required in reply to this Office action.  
 12) The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
 \* See the attached detailed Office action for a list of the certified copies not received.  
 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
 a) The translation of the foreign language provisional application has been received.  
 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

1) Notice of References Cited (PTO-892)                            4) Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)                    5) Notice of Informal Patent Application (PTO-152)  
 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.                    6) Other:

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-9, 13, 15, 17-21, 23, 25, and 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Khosla et al. (“Khosla”, US 6,202,061).

As per independent claim 1, Khosla teaches a digital image album layout system comprising:

a page creator module having a first genetic engine operable to execute genetic evolution calculations on a first genetic population of image criteria, said page creator module having a page evaluation module operable to test said first genetic population for fitness to album preference criteria (col. 6, lines 11-12 and lines 16-19) and

an image placement module having a second genetic engine operable to execute genetic evolution calculations on a second genetic population of page layout criteria, said image placement module having a layout evaluation module operable to test said second genetic population for fitness to page preference criteria (col. 6, lines 11-12 and lines 16-19).

As per independent claim 2, Khosla teaches an automated album layout method responsive to a set of inputs containing digital images, graphics, and other 2-dimensional objects, comprising the steps of:

evaluating a grouping of the image objects for distribution into a number of album pages according to a fitness function's parameters of a genetic engine (col. 6, lines 16-17);

assigning each image object to a page based on user preferences, including balance (col. 6, lines 18-19);

displaying said page for user viewing, and refining the distribution based on further user action (col. 6, lines 37-48).

As per independent claim 3, Khosla teaches an automated layout and presentation method responsive to a set of inputs containing digital images, graphics, and other two-dimensional objects, comprising the steps of:

evaluating the 'x' and 'y' position coordinates, scale, and rotation of each of the input images objects within a page according to fitness function parameters in a genetic engine (col. 6, lines 31-41);

creating a page layout based on user preferences including rotation (col. 6, lines 31-41); displaying said page layout for user viewing; refining said page layout based on further user action, and formatting the page layout printing (col. 6, lines 31-41).

As per independent claims 4, 5, and 6, they are rejected under the same rationale as claim 1.

As per independent claim 7, it is rejected under the same rationale as claim 4.

As per independent claim 8, Khosla teaches a method of assigning a plurality of images, having image parameters, to one or more pages in an album, comprising the steps of:

specifying an initial set of page assignments defining the album page assignment for each of the plurality of images (col. 6, lines 3-6);

initializing a genetic population by assigning said initial set of page assignments to genes within an album genome structure; evolving said genetic population in accordance with a genetic function to produce a present set of page assignments within said album genome structure (col. 6, lines 10-15);

calculating a present set of page criteria according to said present set of page assignments, the image parameters, and a set of album page parameters; testing said present set of page criteria according to an album fitness function to determine an album score (col. 6, lines 16-19);

repeating said evolving and calculating steps if said album score fails to meet an album threshold value, and outputting image page assignments according to said present page assignment if said album score meets said album threshold value (col. 6, lines 19-21).

As per claim 9, which is dependent on claim 8, it is inherent in Khosla's system that the image parameters include an image event value, image chronology value, and image emphasis value.

As per claim 13, which is dependent on claim 8, Khosla teaches calculation of said page criteria includes calculation of an emphasis value range, a page count value, and a balance threshold value (col. 6, lines 16-19).

As per claim 15, which is dependent on claim 8, it is inherent in Khosla's system that the page criteria includes balance, emphasis, chronology, and unity.

As per independent claim 17, it is rejected under the same rationale as claim 1.

As per independent claim 18, Khosla teaches a method of arranging one, or more images, having image parameters, on an album page, comprising the steps of:  
specifying an initial set of positioning parameters for each of the one or more images; initializing a genetic population by assigning said initial set of positioning parameters as genes in a page genome structure; evolving said genetic population in accordance with a genetic function to produce a present set of positioning parameters within said page genome structure (col. 6, lines 10-15);

calculating a set of present layout criteria, according to said present set of positioning parameters, the image parameters, and a set of page layout parameters; testing said present set of layout criteria according to a page fitness function to determine a page score; repeating said evolving and calculating steps if said page score fails to meet a page threshold value (col. 6, lines 19-21); and

outputting a page layout according to said present set of positioning parameters if said page score meets said page threshold value (col. 6, lines 19-29).

As per claim 19, which is dependent on claim 18, Khosla teaches the image parameters include an image emphasis value (col. 6, lines 11-12).

As per claim 20, which is dependent on claim 18, Khosla teaches the genome structure is an array (the layout of pictures as in fig. 14 is an array).

As per claim 21, which is dependent on claim 18, this claim is rejected under the same rationale as claim 20.

As per claim 23, which is dependent on claim 18, Khosla teaches the layout criteria includes calculation of image rotation (col. 6, line 41).

As per claim 25, which is dependent on claim 18, Khosla teaches the page criteria include white space range (fig. 12A and fig. 14).

As per independent claim 27, it is rejected under the same rationale as claim 1.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Khosla in view of Wang (US 6,014,458).

As per claim 10, which is dependent on claim 8, Khosla does not disclose the genome structure is a tree structure. Wang discloses hierarchical tree structure for arranging images in document pages in and fig. 8, lines 27-45. It would have been obvious to an artisan at the time of the invention to use the teaching from Wang of the genome structure is a tree structure in Khosla's system since it would allow a user easily to arrange and organize images in pages.

As per claim 11, which is dependent on claim 8, it is rejected under the same rationale as claim 10.

#### ***Allowable Subject Matter***

5. Claims 12, 14, 16, 22, 24, and 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 5685002 A to Sano, Homare discloses image processing system capable of generating a multi-picture image.

US 6222947 B1 to Koba, Toshinori discloses image editing apparatus and method and medium on which programs are recorded.

US 6571054 B1 to Tonomura, Yoshinobu et al. discloses method for creating and utilizing electronic image book and recording medium having recorded therein a program for implementing the method.

US 6324545 B1 to Morag, Guy discloses personalized photo album.

*Inquiries*

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nhon (Gary) D Nguyen whose telephone number is 703-305-8318. The examiner can normally be reached on Monday - Friday from 8 AM to 5:30 PM with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine L Kincaid can be reached on 703-308-0640. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Nhon (Gary) Nguyen  
September 17, 2003

  
STEVEN SAX  
PRIMARY EXAMINER